

Application No. N/A  
Amdt. dated January 30, 2004

Amendments to the Specification:

Page 1, add the title and heading before the first paragraph and add another heading before the second paragraph as follows:

[ [SPECIFICATIONS] ]

--DEVICE FOR THE REGULATION OF FLOW APPLIED TO  
FLOW VALVES WORKING UNDER PRESSURE DIFFERENTIAL

FIELD OF THE INVENTION

This invention refers to flow regulating devices offering a great operating flexibility, which may be applied to flow valves working under differential pressure and which are preferably commanded by small flows of control or other systems requiring them.--

--BACKGROUND OF THE INVENTION

From among the large range of valves for flows commanded by pressure differences, which work by transferring control flows and which may regulate flows, the following documents of patents may be mentioned: US 5,738,332 and US 5,769,387 by S. Pérez, the same inventor of this device.--

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Page 2, add a heading before the paragraph starting at line 7  
as follows:

--SUMMARY OF THE INVENTION

This invention, on the contrary, offers flow regulating devices for the main valve with a greater flexibility and versatility of operation and which require low operating power. They also have a simple design and little components, which make in some cases possible the manufacture of valves that may operate with a control flow under small pressures differentials (near zero pressure) and which may operate under system's pressures near zero and even with slightly negative pressures (vacuum) or at high pressures.--

Page 4, after line 6, insert a heading as follows:

--BRIEF DESCRIPTION OF THE DRAWINGS

Below, a detailed description of the invention is shown backed up by figures, where:--

Page 6, after line 10, add a heading as follows:

--DETAILED DESCRIPTION OF THE INVENTION

The main valve 1 is a valve operating under differential pressure and it has a main flow inlet 112 and a main flow outlet 113. The main flow inlet 112 is equipped with a valve seat 114 over which a main shutter 100 is adjusted likely to shift in a

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perpendicular direction to its shuttering plane, which shall be defined as "axial direction". On its shuttering face, the main shutter 100 has a hole 111 allowing the entering of the main flow from the inlet 112 to a pressure chamber 110.--